

ABSTRACT OF SANITARY REPORTS.

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No. 21.

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UNITED STATES.

SPECIAL REPORTS.

United States Quarantine, Angel Island, San Francisco Bay, Cal.—May 14, 1892, Passed Assistant Surgeon Carmichael reports as follows: "One case smallpox developed on barge to-day among detained passengers of steamship *City of Peking*. Patients removed to lazaretto and barge fumigated."

Reports of States, and yearly and monthly reports of cities.

ALABAMA—*Mobile*.—Month of April, 1892. Population, 31,076. Total deaths, 79, including 20 from phthisis pulmonalis.

CALIFORNIA—*Oakland*.—Month of April, 1892. Population, 48,682. Total deaths, 63, including phthisis pulmonalis, 8; enteric fever, 2; diphtheria, 2; and measles, 1.

Sacramento.—Month of April, 1892. Population, 26,386. Total deaths, 32, including phthisis pulmonalis, 5; enteric fever, 1; and diphtheria, 1.

San Francisco.—Month of April, 1892. Population, 298,997. Total deaths, 486, including phthisis pulmonalis, 82; enteric fever, 8; scarlet fever, 4; diphtheria, 16; croup, 4; measles, 4; and whooping cough, 3.

CONNECTICUT—*Bridgeport*.—Month of April, 1892. Population, 48,866. Total deaths, 68, including phthisis pulmonalis, 9; scarlet fever, 5; and diphtheria and croup, 2.

IOWA—*Dubuque*.—Month of March, 1892. Population, 30,311. Total deaths, 24, including phthisis pulmonalis, 2; scarlet fever, 1; and diphtheria, 1.

Month of April. Total deaths, 24, including 3 from phthisis pulmonalis.

Keokuk.—Month of April, 1892. Population, 14,101. Total deaths, 21, including 2 from phthisis pulmonalis.

LOUISIANA—*Shreveport*.—Two weeks ended May 7, 1892. Population, 11,979. Total deaths, 8, including 4 from phthisis pulmonalis.

MASSACHUSETTS—*Northampton*.—Month of April, 1892. Total deaths, 23, including phthisis pulmonalis, 1; croup, 2; and whooping cough, 1.

MICHIGAN.—Week ended May 7, 1892. Reports to the State board of health, Lansing, from 73 observers, indicate that cerebro-spinal meningitis, measles, typhoid fever, membranous croup, puerperal fever, inflammation of bowels, whooping cough, scarlet fever, and intermittent fever increased, and that typho-malarial fever, cholera morbus, diphtheria, tonsillitis, inflammation of brain, and cholera infantum decreased in area of prevalence.

Diphtheria was reported during the week at 36 places, scarlet fever at 65, enteric fever at 13, measles at 21 places, and 1 case varioloid at Detroit.

Grand Rapids.—Month of April, 1892. Population, 60,278. Total deaths, 105, including phthisis pulmonalis 12; enteric fever, 10; diphtheria, 5; croup, 1; and whooping cough, 1.

MINNESOTA—*Minneapolis*.—Month of April, 1892. Population, 164,738. Total deaths, 201, including phthisis pulmonalis, 25; enteric fever, 3; scarlet fever, 3; diphtheria, 7; measles, 8; and whooping cough, 4.

Winona.—Month of April, 1892. Population, 18,208. Total deaths, 20, including phthisis pulmonalis, 2; croup, 1; and measles, 2.

NEW YORK—*Rochester*.—Month of April, 1892. Population, 1,515,301. Total deaths, 221, including phthisis pulmonalis, 19; enteric fever, 1; scarlet fever, 1; diphtheria, 13; croup, 9; and whooping cough, 2.

OHIO—*Cleveland*.—Month of April, 1892. Population, 261,353. Total deaths, 411, including phthisis pulmonalis, 42; enteric fever, 2; scarlet fever, 4; diphtheria, 17; croup, 8; and measles, 2.

PENNSYLVANIA—*Pittsburg*—*Smallpox*.—Under date of May 14, 1892, Dr. Benj. Lee, secretary State board of health, reports 2 cases of smallpox in Pittsburg.

RHODE ISLAND—*Newport*.—Month of April, 1892. Population, 19,457. Total deaths, 27, including 2 from phthisis pulmonalis and 1 from croup.

TENNESSEE—*Chattanooga*.—Month of April, 1892. Population, 29,100. Total deaths, 40, including 6 from phthisis pulmonalis.

Nashville.—Month of April, 1892. Population, 76,168. Total deaths, 126, including phthisis pulmonalis, 20; enteric fever, 4; and whooping cough, 1.

Table of temperature and rainfall, week ended May 13, 1892.

[Received from Department of Agriculture, Weather Bureau.]

Locality.	Temperature in degrees Fahrenheit.			Rainfall in inches and hundredths		
	Normal.	*Excess.	*Deficiency.	Normal.	Excess.	Deficiency.
New England States:						
Eastport, Me.....	46	.....	0	.98	.....	.80
Portland, Me.....	52	.....	2	.70	.15	.....
Boston, Mass.....	54	.....	1	.77	.....	.23
Block Island, R. I.....	50	.....	0	.84	.08	.....
Middle Atlantic States:						
Albany, N. Y.....	57	.....	2	.63	.....	.36
New York, N. Y.....	58	.....	0	.70	.14	.....
Philadelphia, Pa.....	60	.....	1	.63	.....	.01
Atlantic City, N. J.....	55	.....	0	.60	1.38	.....
Baltimore, Md.....	62	.....	2	.77	.....	.19
Washington, D. C.....	62	.....	3	.84	.....	.28
Lynchburg, Va.....	64	.....	3	.84	.22	.....
Norfolk, Va.....	64	.....	1	.91	.05	.....
South Atlantic States:						
Charlotte, N. C.....	67	.....	1	.98	.....	.16
Wilmington, N. C.....	68	.....	3	.90	.....	.52
Charleston, S. C.....	71	.....	1	.84	.35	.....
Augusta, Ga.....	72	.....	3	.77	1.03	.....
Savannah, Ga.....	73	.....	1	.40	1.10	.....
Jacksonville, Fla.....	74	2	.....	.92	.....	.34
Key West, Fla.....	79	.....	0	.74	.....	.74
Gulf States:						
Atlanta, Ga.....	68	.....	0	.84	.....	.44
Pensacola, Fla.....	.....	.....	.....	.....	.....	.....
Mobile, Ala.....	73	.....	0	.98	.....	.60
Montgomery, Ala.....	72	1	.....	.91	.17	.....
Vicksburg, Miss.....	72	.....	0	1.14	.....	.98
New Orleans, La.....	74	.....	0	1.12	.40	.....
Shreveport, La.....	73	.....	9	1.01	.....	.23
Fort Smith, Ark.....	68	.....	5	.99	1.31	.....
Little Rock, Ark.....	69	.....	4	1.26	.92	.....
Palestine, Tex.....	71	1	.....	1.60	.....	.02
Galveston, Tex.....	75	.....	.....	.91	.....	.79
San Antonio, Tex.....	74	2	.....	.77	.....	.71
Corpus Christi, Tex.....	75	2	.....	.73	.....	.69
Brownsville, Tex.....	77	4	.....	.74	.....	.74
Ohio Valley and Tennessee:						
Memphis, Tenn.....	68	.....	2	.90	2.90	.....
Nashville, Tenn.....	66	.....	1	.80	.38	.....
Chattanooga, Tenn.....	67	.....	0	.98	.....	.39
Knoxville, Tenn.....	65	.....	0	.84	.....	.66
Louisville, Ky.....	65	.....	6	.84	.12	.....
Indianapolis, Ind.....	61	.....	8	.91	.59	.....
Cincinnati, Ohio.....	63	.....	7	.75	.41	.....
Columbus, Ohio.....	60	.....	5	1.10	.....	.83
Pittsburg, Pa.....	61	.....	6	.77	.....	.38
Lake Region:						
Oswego, N. Y.....	52	.....	5	.56	.....	.27
Rochester, N. Y.....	54	.....	3	.64	.....	.37
Buffalo, N. Y.....	52	.....	4	.70	.....	.16
Erie, Pa.....	54	.....	6	.74	.....	.02
Cleveland, Ohio.....	55	.....	6	.70	.22	.....
Sandusky, Ohio.....	56	.....	5	.77	.11	.....
Toledo, Ohio.....	.....	.....	.....	.....	.....	.....
Detroit, Mich.....	56	.....	7	.74	.28	.....
Port Huron, Mich.....	50	.....	5	.70	.36	.....
Alpena, Mich.....	47	.....	3	.80	.10	.....
Marquette, Mich.....	46	.....	8	.56	.....	.54
Grand Haven, Mich.....	52	.....	6	.74	.42	.....
Milwaukee, Wis.....	52	.....	8	.77	.76	.....
Chicago, Ill.....	55	.....	8	.84	.....	.16
Duluth, Minn.....	46	.....	7	.69	.....	.11
Upper Mississippi Valley:						
St. Paul, Minn.....	55	.....	10	.70	.06	.....
La Crosse, Wis.....	56	.....	9	.63	.96	.....
Dubuque, Iowa.....	57	.....	9	.87	.29	.....
Davenport, Iowa.....	58	.....	9	1.00	.....	.07

*The figures in these columns represent the average daily departure. To obtain the accumulated excess or deficiency of the week these should be multiplied by seven.

Table of temperature and rainfall, week ended May 13, 1892—Continued.

Locality.	Temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	*Excess.	*Deficiency.	Normal.	Excess.	Deficiency.
Upper Mississippi Valley—Cont'd.						
Des Moines, Iowa.....	59	.....	12	1.05	.66	.....
Keokuk, Iowa.....	60	.....	9	.88	.52	.....
Springfield, Ill.....	61	.....	10	1.12	.....	.13
Champaign, Ill.....	66	.....	4	.84	1.00	.....
St. Louis, Mo.....	64	.....	9	.86	1.26	.....
Missouri Valley:						
Springfield, Mo.....	66	.....	8	1.40	.80	.....
Kansas City, Mo.....	62	.....	9	.91	2.43	.....
Concordia, Kans.....	60	.....	9	.92	2.00	.....
Omaha, Nebr.....	60	.....	12	.98	1.58	.....
Yankton, S. Dak.....	57	.....	14	.94	.98	.....
Valentine, Nebr.....	55	.....	16	.82	1.84	.....
Huron, S. Dak.....	53	.....	12	.77	1.45	.....
Pierre, S. Dak.....	55	.....	13	.49	.89	.....
Extreme Northwest:						
Moorhead, Minn.....	51	.....	8	.56	.....	.26
Saint Vincent, Minn.....	48	.....	4	.36	.....	.14
Bismarck, N. Dak.....	52	.....	11	.56	.18	.....
Buford, Fort, N. Dak.....	52	.....	11	.35	.....	.15
Rocky Mountain Slope:						
Assiniboine, Fort, Mont.....	51	.....	9	.21	.15	.....
Helena, Mont.....	51	.....	10	.28	.49	.....
Spokane, Wash.....	55	.....	5	.28	.90	.....
Salt Lake City, Utah.....	57	.....	7	.47	.....	.02
Cheyenne, Wyo.....	49	.....	14	.49	1.65	.....
North Platte, Nebr.....	56	.....	13	.63	1.07	.....
Denver, Colo.....	55	.....	12	.74	.33	.....
Montrose, Colo.....	55	.....	2	.17	.....	.17
Pueblo, Colo.....	57	.....	5	.28	.52	.....
Dodge City, Kans.....	62	.....	12	.82	.38	.....
Abilene, Tex.....	70	.....	3	1.02	.72	.....
El Paso, Tex.....	71	.....	3	.07	.....	.07
Santa Fe, N. Mex.....	54	.....	1	.16	.....	.16
Tucson, Ariz.....	72	.....	6	.03	.....	.03
Pacific Coast:						
Olympia, Wash.....	54	.....	0	.56	.40	.....
Portland, Oreg.....	58	.....	3	.60	.39	.....
Roseburg, Oreg.....	57	.....	4	.43	.50	.....
Red Bluff, Cal.....	67	.....	10	.32	.....	.10
Sacramento, Cal.....	64	.....	7	.25	.05	.....
San Francisco, Cal.....	58	.....	3	.16	.....	.06
Los Angeles, Cal.....	63	.....	.....	.08	.....	.....
San Diego, Cal.....	61	.....	2	.07	.....	.07
Yuma, Ariz.....	77	.....	6	.00	.00	.....

* The figures in these columns represent the average daily departure. To obtain the accumulated excess or deficiency of the week these should be multiplied by seven.

FOREIGN.

(Reports received through the Department of State and other channels.)

Consular reports from Russia concerning typhus fever—Continued.

ROSTOFF.

UNITED STATES CONSULAR AGENCY,
Rostoff on Don, April 13, 1892.

Typhus fever broke out in the town of Rostoff about a month ago among the lower classes of the unemployed, principally composed of peasants and laborers from the famine-stricken districts of Northern Russia. It is computed that about 70,000 persons of both sexes have come to or passed through Rostoff since last autumn, principally from the said districts, and about three per cent. of that number have remained in Rostoff, the rest finding the means or being variously assisted to proceed further to the Caucasus and other parts in search of employment. Those who remained here congregated mostly in the night refuges and similar lodgings, and the infection having been brought by them from their districts, where typhus fever had already appeared, it was easily disseminated, owing to the overcrowding in said refuges, to the want of proper nourishment, or even food in some cases, the effects of which were rendered still worse by the continued severity of the weather, and the moral dejection generally of the people. As soon as the outbreak was noticed by the sanitary authorities stringent measures were resorted to, so as to prevent the disease from spreading. Doctors were appointed to visit regularly all the refuges and examine their occupants, and a building on the outskirts of the town was set apart for the reception of all suspicious cases, a special staff of medical men and attendants being organized for the purpose of attending to the patients. In all, about two hundred cases occurred, mostly of a special form of typhus accompanied with a rash, but fortunately so far only four per cent. of that number have ended fatally. The principal sufferers have been the men, very few females having been attacked. Among the general population of the town of Rostoff, as well as in Taganrog and this consular district generally, no cases have occurred over and above the normal percentage of typhus in its usual form.

The infection was undisputably brought from the famine-stricken districts, but what principally contributed to the dissemination and increase of the disease, besides the unduly enfeebled constitutions of the people, was the unseasonable and unusual weather which has prevailed here during the last six weeks. After a short spell of comparatively fine and warm weather, we have had cold, piercing winds, a slight fall of snow, and some frost. With a low temperature cases of typhus increase in number and virulence, so that as soon as a change for warmer weather sets in, as now seems imminent, it is hoped that the disease will be effectually stamped out.

There being no direct communication by passenger steamers between this and the United States, or even Great Britain, intending emigrants, in the event of their being infected, can completely elude the control of this office.

Hon. WM. F. WHARTON,
*Assistant Secretary of State.*W. R. MARTIN,
Acting U. S. Consular Agent.

BRAZIL.—*Sanitary condition, etc., of Bahia*.—The following has been received from the United States consul, dated April 4, 1892.

I have the honor to report that the health of Bahia and contiguous country is good. At present there are no cases of yellow fever, except those brought here from Rio de Janeiro and Santos, and quarantined on the yellow fever island. Rev. E. M. Pinkerton, an American missionary recently out from Cincinnati, Ohio, died here of yellow fever February 25. The late heavy rains have abated the drouth complained of in the interior.

CUBA.—*Cardenas—Smallpox*.—The United States consul, under date of May 5, 1892, reports two cases of smallpox in the city of Cardenas.

Havana.—The following report has been received from the United States sanitary inspector, dated May 7, 1892:

There were 129 deaths in this city during the week ending May 5, 1892. One of those deaths was caused by yellow fever, 6 by enteric fever, 3 by pernicious fever, and 1 by diphtheria.

Although enteric fever is still quite prevalent it is apparently diminishing.

FRANCE.—*Marseilles*.—Month of April, 1892. Population, 406,919. Total deaths, 851, including smallpox, 10; enteric fever, 11; scarlet fever, 4; diphtheria and croup, 54; measles, 42; and whooping cough, 1.

Rheims.—Month of March, 1892. Population, 105,993. Total deaths, 258, including phthisis pulmonalis, 26; enteric fever, 1; smallpox, 5; diphtheria and croup, 3; measles, 8; and whooping cough, 3.

GERMANY.—*Brunswick*.—Four months ended February 29, 1892. Population, 101,050. Total deaths, 744, including phthisis pulmonalis, 104; enteric fever, 6; scarlet fever, 1; diphtheria, 23; measles, 26; croup, 2; and whooping cough, 4.

Magdeburg.—Month of January, 1892. Population, 215,760. Total deaths, 462; including scarlet fever 1 and diphtheria and croup 17.

GREAT BRITAIN.—*England and Wales*.—The deaths registered in 33 great towns of England and Wales during the week ended April 30 corresponded to an annual rate of 20.8 a thousand of the aggregate population, which is estimated at 10,185,736. The lowest rate was recorded in Brighton, viz, 9.9, and the highest in Liverpool, viz, 27.5 a thousand.

London.—One thousand six hundred and nineteen deaths were registered during the week, including smallpox, 2; measles, 156; scarlet fever, 19; diphtheria, 17; whooping cough, 59; enteric fever, 5; and diarrhea and dysentery, 14. The deaths from all causes corresponded to an annual rate of 19.8 a thousand. Diseases of the respiratory organs caused 306 deaths. In greater London 2,008 deaths were regis-

tered, corresponding to an annual rate of 18.2 a thousand of the population. In the "outer ring" the deaths included diphtheria, 6; measles, 18; and whooping cough, 13.

Ireland.—The average annual death rate represented by the deaths registered during the week ended April 30, in the 16 principal town districts of Ireland, was 33.9 a thousand of the population. The lowest rate was recorded in Armagh, viz, 0.0, and the highest in Drogheda, viz, 79.1 a thousand. In Dublin and suburbs 294 deaths were registered, including enteric fever, 1; diphtheria, 1; measles, 20; and whooping cough, 11.

Scotland.—The deaths registered in 8 principal towns during the week ended April 30 corresponded to an annual rate of 21.3 a thousand of the population, which is estimated at 1,447,500. The lowest mortality was recorded in Leith, viz, 13.4, and the highest in Glasgow, viz, 23.8 a thousand. The aggregate number of deaths registered from all causes was 593, including measles, 18; scarlet fever, 4; diphtheria, 4; whooping cough, 26; fever, 4; and diarrhea, 14.

INDIA—Calcutta.—During the week ending March 19, there were 119 choleraic deaths.

ITALY—Milan.—Month of March, 1892. Population, 415,331. Total deaths, 972, including smallpox, 1; enteric fever, 11; scarlet fever, 4; and diphtheria, 37.

RUSSIA—Riga.—Month of February, 1892. Population, 200,000. Total deaths, 349, including smallpox, 1; phthisis pulmonalis, 47; enteric fever, 5; diphtheria, 14; scarlet fever, 27; measles, 1; and whooping cough, 3.

Yellow fever vessels.

[Translated from the *Veröffentlichungen des Kaiserlichen Gesundheitsamtes*, Berlin, April 27, 1892.]

During the latter part of the month of April two American steamers arrived at Genoa with yellow fever on board. They were sent to Asinara. The steamship company La Veloce has directed that all steamers of that line arriving from Brazil shall, even when the sanitary conditions on board are good, repair to Asinara for a quarantine of observation.

MORTALITY TABLE, FOREIGN CITIES.

Cities.	Week ended.	Estimated population.	Total deaths from all causes.	Deaths from—								
				Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
London.....	Apr. 30.	5,752,204	2,008			2		5	21	23	174	
Paris.....	Apr. 30.	2,424,705	1,066					3	1	26	30	6
Calcutta.....	Mar. 5.	681,560	504	65		1						
Calcutta.....	Mar. 12.	681,560	466	61		1						
Glasgow.....	Apr. 30.	669,059	306				2	3	3	6		
Hamburg.....	Apr. 16.	570,534	275					3	2	2		
Hamburg.....	Apr. 23.	570,534	283					15	51	32		
Liverpool.....	Apr. 30.	517,951	271			1	2	1	1	2		
Warsaw.....	Apr. 23.	490,417	251			8		4		3		
Brussels.....	Apr. 23.	482,158	194					3	2	1		
Rome.....	Apr. 29.	436,179	194					3		1	5	
Rome.....	May 2.	436,179	167					3		4	5	1
Lyons.....	Apr. 23.	416,000	185							12		
Cairo.....	Apr. 7.	374,838	273					6				2
Cairo.....	Apr. 14.	374,838	281			3		12				1
Munich.....	Apr. 16.	366,000	220							7		
Copenhagen.....	Apr. 23.	366,000	134						2	4		
Odessa.....	Apr. 23.	302,000	134							1	2	
Cologne.....	Apr. 30.	292,203	137						1	6		2
Dresden.....	Apr. 23.	286,200	118					1		11		
Edinburgh.....	Apr. 30.	264,787	100					1	1	1		
Belfast.....	Apr. 30.	255,922	128					2	1			
Palermo.....	Apr. 23.	250,000	116							2		
Antwerp.....	Apr. 23.	241,263	102							2		
Antwerp.....	Apr. 30.	241,263	78					1				
Alexandria.....	Apr. 7.	231,396	147			6					1	2
Alexandria.....	Apr. 14.	231,396	153			4		1		2		1
Bristol.....	Apr. 30.	223,592	98									
Rotterdam.....	Apr. 30.	216,679	126							1		
Hanover.....	Apr. 23.	185,200	64							6		
Genoa.....	Apr. 30.	181,394	92			2			1	2	1	
Frankfort-on-the-Main.....	Apr. 23.	180,000	104					2		16		
Venice.....	Apr. 23.	161,678	58							1		
Trieste.....	Apr. 22.	158,054	96						1	6		
Ghent.....	Apr. 23.	150,208	74									1
Nuremberg.....	Apr. 16.	149,506	78					2	1	1		
Hioho.....	Apr. 9.	142,394	62									
Hioho.....	Apr. 16.	142,394	48			1				1		
Stuttgart.....	Apr. 30.	139,659	65							6		
Funchal.....	Apr. 23.	133,250	19					1				
Bremen.....	Apr. 23.	126,000	55							5		
Stettin.....	Apr. 30.	116,500	51							2		
Havre.....	Apr. 30.	116,369	61							2	1	
Crefeld.....	Apr. 30.	108,000	75									
Aix-la-Chapelle.....	Apr. 24.	106,483	46									
Rheims.....	Apr. 30.	105,993	53			1		1		1		1
Gothenburg.....	Apr. 23.	105,800	50									
Zurich.....	Apr. 9.	91,323	21						5	6	9	1
Zurich.....	Apr. 16.	91,323	22				1		1	5	4	7
Zurich.....	Apr. 23.	91,323	25						5	11	4	2
Mannheim.....	Apr. 30.	80,000	37							1		
Mayence.....	Apr. 23.	72,281	32							1		
Marsala.....	Apr. 23.	40,131	17									
Matanzas.....	May 4.	40,000	20									
Cardenas.....	May 1.	27,000	12									
Vera Cruz.....	Apr. 29.	26,000	10			3		2				
Vera Cruz.....	May 6.	26,000	11			6		1				
Gibraltar.....	Apr. 24.	25,755	14									
Gibraltar.....	Apr. 30.	25,755	5									
Schiedam.....	Apr. 30.	25,371	22									
Girgenti.....	Apr. 23.	23,947	8									
Kingston, Can.....	May 13.	19,264	14									
Antigua, W. I.....	Apr. 9.	16,664	27									
Antigua, W. I.....	Apr. 16.	16,664	25									
Hamilton, Bermuda.....	May 9.	15,013	3									
Cape Haitien.....	Mar. 19.	15,000	3									
Cape Haitien.....	Mar. 26.	15,000	4									
Cape Haitien.....	Apr. 2.	15,000	7									
Cape Haitien.....	Apr. 9.	15,000	5									
Cape Haitien.....	Apr. 16.	15,000	3									
Cape Haitien.....	Apr. 23.	15,000	5									

* Seven cases of smallpox taken off Swedish steamship Ocean and sent to hospital.

MORTALITY TABLE, FOREIGN CITIES—Continued.

Cities.	Week ended.	Estimated population.	Total deaths from all causes.	Deaths from—							
				Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.
Flushing.....	Apr. 30....	14,000	3	.....	.....	.....	.....	.....	.....	.....	.....
Matamoras.....	May 6....	12,000	8	.....	.....	.....	.....	.....	.....	.....	.....
Sonneberg.....	Apr. 30....	12,000	12	.....	.....	.....	.....	.....	.....	.....	.....
Port Stanley and St. Thomas.	Apr. 29....	10,500	2	.....	.....	.....	.....	.....	.....	.....	.....
Queenstown.....	Apr. 30....	10,341	7	.....	.....	.....	.....	.....	.....	.....	.....
Queenstown.....	May 7....	10,341	4	.....	.....	.....	.....	.....	.....	.....	.....
Tuxpan.....	Apr. 29....	10,280	4	.....	.....	.....	.....	.....	.....	.....	.....
Chatham.....	May 7....	10,000	4	.....	.....	.....	.....	.....	.....	.....	.....
Coaticook.....	Apr. 16....	3,082	2	.....	.....	.....	.....	.....	.....	.....	.....
Coaticook.....	Apr. 23....	3,082	1	.....	.....	.....	.....	.....	.....	.....	.....
Talcahuano.....	Mar. 12....	2,495	.....	.....	.....	12	.....	.....	.....	.....	.....
Talcahuano.....	Mar. 19....	2,495	.....	.....	.....	5	.....	.....	.....	.....	.....

OFFICIAL:

WALTER WYMAN,

Supervising Surgeon-General Marine-Hospital Service.